

**IN VITRO STUDY OF INHIBITION TEST ETHANOL EXTRACT OF  
SECANG WOOD (*Caesalpinia sappan* L.) ON  
*Microsporum canis* FUNGAL GROWTH**

Suryaningrum

**ABSTRACT**

Dermatophytosis currently characterized a skin disease that frequently infect pets such as dogs and cats. Dermatophytosis is a zoonotic disease, one of the causes of dermatophytosis is *Microsporum canis*. Secang wood (*Caesalpinia sappan* L.) is herbal medicine that contains antimicrobial compounds, wick know as flavonoid; phenol; brazilin; homoisoflavonoid; xanthone; saponin. The aim of this research was to study the antifungal activity ethanol extract of secang wood (*Caesalpinia sappan* L.) on fungal growth inhibition of *Microsporum canis* using diffuse disc method. The result of the inhibition zone was analyzed using ANOVA (Analysis of Variance) test and continued using Duncan test showed significantly different among the treatments ( $p < 0.05$ ). The inhibition number of positive control used ketoconazole 2% was  $12,97^c \pm 0,42$ , and the negative control used CMC Na 0,5% was  $0,00^a \pm 0,00$ . The result of concentration 1 used ethanol extract of secang wood 20% was  $0,00^a \pm 0,00$ ; concentration 2 used ethanol extract of secang wood 40%  $8,87^{bc} \pm 0,51$ ; concentration 3 used ethanol extract of secang wood 60%  $10,95^{bc} \pm 0,58$ ; concentration 4 used ethanol extract of secang wood 80%  $6,55^b \pm 5,72$ ; concentration 5 used ethanol extract of secang wood 100%  $5,75^b \pm 5,02$ . It showed that ethanol extract of secang wood (*Caesalpinia sappan* L.) have antifungal activity to against *Microsporum canis* growth with 40% of Minimal Inhibitory Concentration (MIC).

**Keywords:** Antifungal Activity, Dermatophytosis, Ethanol Extract, *Microsporum canis*, Secang Wood (*Caesalpinia sappan* L.).